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Kauffold, J., Rautenberg, T., Richter, A., Waehner, M. and Sobiraj, A., Ultrasonographic characterization of the ovaries and the uterus in prepubertal and pubertal gilts, (61) (2004) 1635
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Kopeika, J., Kopeika, E., Zhang, T., Rawson, D.M. and Holt, W.V., Effect of DNA repair inhibitor (3-aminobenzamide) on genetic stability of loach (*Misgurnus fossilis*) embryos derived from cryopreserved sperm, (61) (2004) 1661
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Kuster, C.E., Singer, R.S. and Althouse, G.C., Determining sample size for the morphological assessment of sperm, (61) (2004) 691
Kyselova, V., Peknicova, J., Boubelik, M. and Buckiova, D., Body and organ weight, sperm acrosomal status and reproduction after genistein and diethylstilbestrol treatment of CD1 mice in a multigenerational study, (61) (2004) 1307

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Hernández, J. and Archbald, L.F., Effect of biostimulation on uterine involution, early ovarian activity and first postpartum estrous cycle in beef cows, (61) (2004) 1521
Lapid, R., Nir, I., Snapir, N. and Robinzon, B., Reproductive traits in the spur-thighed tortoise (*Testudo graeca terrestris*): new tools for the enhancement of reproductive success and survivorship, (61) (2004) 1147
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Lucci, C.M., Kacinskis, M.A., Lopes, L.H.R., Rumpf, R. and Báo, S.N., Effect of different cryoprotectants on the structural preservation of follicles in frozen zebu bovine (*Bos indicus*) ovarian tissue, (61) (2004) 1101
Lucci, C.M., Kacinskis, M.A., Rumpf, R. and Báo, S.N., Effects of lowered temperatures and media on short-term preservation of zebu (*Bos indicus*) preantral ovarian follicles, (61) (2004) 461
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Morato, R.G., Verreschi, I.T.N., Guimarães, M.A.B.V., Cassaro, K., Pessuti, C. and Barnabe, R.C., Seasonal variation in the endocrine–testicular function of captive jaguars (*Panthera onca*), (61) (2004) 1273
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Nam, Y.K., Choi, G.C. and Kim, D.S., An efficient method for blocking the 1st mitotic cleavage of fish zygote using combined thermal treatment, exemplified by mud loach (*Misgurnus mizolepis*), (61) (2004) 933
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Nogueira, M.F.G., Melo, D.S., Carvalho, L.M., Fuck, E.J., Trinca, L.A. and Barros, C.M., Do high progesterone concentrations decrease pregnancy rates in embryo recipients synchronized with PGF2α and eCG?, (61) (2004) 1283
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Otten, W., Kanitz, E., Tuchscherer, M., Schneider, F. and Brüssow, K.-P., Effects of adrenocorticotropin stimulation on cortisol dynamics of pregnant gilts and their fetuses: implications for prenatal stress studies, (61) (2004) 1649
Owen Rae, D., Crews, J.E., Greiner, E.C. and Arthur Donovan, G., Epidemiology of *Tritrichomonas foetus* in beef bull populations in Florida, (61) (2004) 605

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Paulenz, H., Söderquist, L., Ådnøy, T., Nordstoga, A., Gulbrandsen, B. and Berg, K.A., Fertility results after different thawing procedures for ram semen frozen in minitubes and mini straws, (61) (2004) 1719

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Petrunkina, A.M., Radcke, S., Günzel-Apel, A.-R., Harrison, R.A.P. and Töpfer-Petersen, E., Role of potassium channels, the sodium-potassium pump and the cytoskeleton in the control of dog sperm volume, (61) (2004) 35
Petrunkina, A.M., Simon, K., Günzel-Apel, A.-R. and Töpfer-Petersen, E., Kinetics of protein tyrosine phosphorylation in sperm selected by binding to homologous and heterologous oviductal explants: how specific is the regulation by the oviduct?, (61) (2004) 1617
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Presicce, G.A., Senatore, E.M., Bella, A., De Santis, G., Barile, V.L., De Mauro, G.J., Terzano, G.M., Stecco, R. and Parmeggiani, A., Ovarian follicular dynamics and hormonal profiles in heifer and mixed-parity Mediterranean Italian buffaloes (*Bubalus bubalis*) following an estrus synchronization protocol, (61) (2004) 1343
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Rijsselaere, T., Van Soom, A., Maes, D., Verberckmoes, S. and de Kruif, A., Effect of blood admixture on in vitro survival of chilled and frozen–thawed canine spermatozoa, (61) (2004) 1589

Robert, A., Beaudeau, F., Seegers, H., Joly, A. and Philipot, J.M., Large scale assessment of the effect associated with bovine viral diarrhoea virus infection on fertility of dairy cows in 6149 dairy herds in Brittany (Western France), (61) (2004) 117
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Robles, V., Cabrita, E., de Paz, P., Cuñado, S., Anel, L. and Herráez, M.P., Effect of a vitrification protocol on the lactate dehydrogenase and glucose-6-phosphate dehydrogenase activities and the hatching rates of Zebrafish (*Danio rerio*) and Turbot (*Scophthalmus maximus*) embryos, (61) (2004) 1367
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Rubio Pomar, F.J., Ducro-Steverink, D.W.B., Hazeleger, W., Teerds, K.J., Colenbrander, B. and Bevers, M.M., Development, DNA fragmentation and cell death in porcine embryos after 24 h storage under different conditions, (61) (2004) 147
Rui, R., Shim, H., Moyer, A.L., Anderson, D.L., Penedo, C.T., Rowe, J.D., BonDurant, R.H. and Anderson, G.B., Attempts to enhance production of porcine chimeras from embryonic germ cells and preimplantation embryos, (61) (2004) 1225
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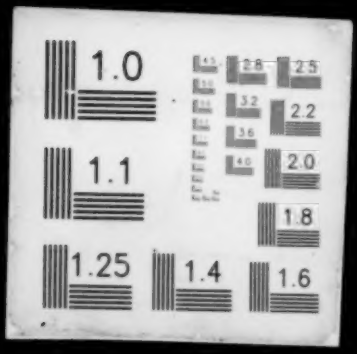
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